SIEMENS

Smart Infrastructure
Building Products

EPD - Type II
Based on ISO 14021

Environmental Product Declaration

Product	Type of equipment / Product No.	EM1.8R	Desigo Essentials MB RTU Ext. Module 8 RO
		EM1.8D	Desigo Essentials MB RTU Ext. Module 8 DI
		EM1.8U	Desigo Essentials MB RTU Ext. Module 8 U
	Product line, Product range	Efficiency Controller	

Process control

Beijing Siemens Cerberus Electronics Ltd.
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Management System	since	by
ISO 9001 (Quality)	01-June-2001	LPCB
ISO 14001 (Environment)	07-May-2005	SGS
OHSAS 18001 (OH&S)	12-December-2011	SGS

Environmentally compatible product design

Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".

Product use	Typical energy consumption	variant *) see below
		according to normal load of device
	Maintenance	Not necessary
Risk of fire	Fire protection according to	EN 60730-1
	Fire load	variant *) see below

Packaging	20-PAP Corrugated fibreboard		Folding Box 105x105x49	34g
	22-PAP Paper		Folding Box 100x45.5x26.5	8g
	Notes on disposal		One-way, recyclable	
Materials	Total weight of device			variant *) see below
			The total weight of a device may deviate from the total of the weights of all individual components due to rounding.	
Plastics	PC; Laser Marking; low-halogen		Top-HSG Assy	30g
	PC; Laser Marking; low-halogen		Bottom-HSG Assy	27g
Others	PA/CuZn/Fe		Terminal block 6 pole (green,2 piece)	22g
	PA/CuZn/Fe		Terminal block 3 pole (green,1 piece)	5g
	PA/CuZn/Fe		Terminal block 2 pole (orange,1 piece)	4g
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu		PCBA	variant

***Variant parts list**	[g]	EM1.8R	EM1.8D	EM1.8U	
Total weight of device		158	127	127	
PCBA		71	41	41	
Fire load	[MJ]	4	3	3	

Typical energy consumption

[kWh/a]	28.032	24.528	24.528	

Disposal



The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to www.siemens.com/bt/disposal.

For country-specific requirements regarding further disposal information:
http://www.siemens.com/download?A6V13734633

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

Regulation (EC) No. 1907/2006 (REACH)

The device contains the following substances of the candidate list meeting the criteria laid down in Article 57 of Regulation (EC) 1907/2006 and identified in accordance with Article 59(1) of EU REACH concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.
Lead, CAS-Nr.7439-92-1; Silicic acid, lead salt, CAS-Nr.11120-22-2
(Status according to the creation date of this document.)

The device is low-halogen with exception of:
PCB (TBBA)

Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Beijing Siemens Cerberus Electronics Ltd. therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.

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